INDEX TO VOLUME 43

New names and final members of new combinations are in **bold face type**

Abies, 198; balsamea, 354; lasiocarpa, 355
Acaena magellanica venulosa, 315; multifida, 315; Philippi, 315; platyacantha, 315
Acantholimon lycopodioides, 581, 583, 640
Acer pennsylvanicum, 244; rubrum, 262; saccharinum, 260; spicatum, 244, 253
Achillea lanata, 272; lanulosa, 272, 349; Millefolium, 271; occidentale, 271; pannonica, 272; subalpina, 357
Acomastylis sericea, 358; turbinata, 357
Aconitum Bakeri, 360; columbianum, 349; delphinifolium, 353; heterophyllum, 582, 632; insigne, 360; Napellus multifidum, 582, 632; ramosum, 363
Acraea rubra, 242, 244
Actinastrum **gracillimum,** 480
Actinocarya tibetica, 641
Additional species of Opuntia, 523
Adenostegia ramosa, 353
Adesmia boronoides, 315; **campestris,** 315; **glandulifera,** 315; parvifolia, 315; pumila, 315; salicornioides, 315; villosa, 315
Adiantum, 366; bellum, 371, 382; Capillus-Veneris, 371, 382; cardiochloena, 371, 382; cuneatum, 365, 366, 382; pedatum, 95, 252; trapeziforme, 372, 382
Adonis chrysocanthus, 633
Aglaonema, 548
Agropyron andinum, 356; dentatum elatum, 628; Jacquemontii, 628; latiglume, 358; longe-aristatum, 628; repens, 588, 628; Scribneri, 356; violaceum, 345
Agrostis alba, 580, 582, 588, 627; asperifolia, 349; canina, 345, 588, 627; hiemalis, 345; idahoensis, 358; variabilis, 349
Aira caryophyllea, 588, 627
Alisma Plantago, 401
Allardia, 589; glabra, 583, 645; nivea, 583, 645; Stoliczkai, 583, 645; tomentosa, 583, 645; vestita, 645
Allium, 399, 589; brevistylum, 356; Cepa, 629; Govanianum, 629; Jacquemonti, 629; loratum, 629; odorum, 629; oreoprasum, 629; Pikeanum, 363; platyspathum, 629; Schoenoprasum, 629; Semenovi, 629; simillisimum, 363; tricoccum, 252
Allotria, 103; scabra, 103
Alnus incana, 247; rugosa, 243, 247; sinuata, 351
Alopecurus aristulatus, 345; himalaicus, 582, 627; occidentalis, 345; pratensis, 588, 627
Alsine americana, 358; bailcalensis, 349; borealis, 346; calycantha, 349; crassifolia, 346; laeta, 346; longifolia, 346; polygonoides, 363
Alsinopsis macrantha, 360; Nuttallii, 349
Alstroemeria nana, 310
Alyssum canescens, 586, 634
Amarella anisopetala, 351; monantha, 361; plebeia, 349; propinqua, 354; strictiflora, 349
Amaryllis longiflora, 403
Amblystegiella confervoides, 241
Amblystegium fluviatile, 239; irriguum, 239; noterophilum, 241
Ambrosia trifida, 257, 260
Amphicarpa monoica, 260
Amsinckia angustifolia, 318
Anabaena **limnetica,** 481; macrospora, 482
Anacolia subsessilis, 329
Ananthopus, 103; clandestinus, 102; cordatus, 105; undulatus, 103
Anaphalis contorta, 645; margaritacea, 267; nubigena, 583, 586, 644; Stoliczkai, 645; subalpina, 355; virgata, 583, 645
Anarthrophyllum Pritchardi, 315
Andreaea petrophila, 241; Rothii, 241
Andromeda novae-caesareae, 285, 301; polifolia, 347; tenuinervis, 302; Wardiana, 285, 302
Andropogon Ischaemum, 582, 624
Androsace, 589; carinata, 357; Chamaejasme, 639; Chamaejasme coronata, 639; filiformis, 357; microphylla, 639; pinetorum, 361; rotundifolia, 639; rotundifolia glandulosa, 639; sarmentosa, 639; sarmentosa primuloides, 639; sempervivoides, 639; septentrionalis, 639; subumbellata, 357; villosa, 581, 583, 624
Aneilema nudiflorum, 96
Anemone albana, 632; Drummondii, 353; globosa, 349; lithophila, 358; parviflora, 346; Richardsonii, 353; quinquefolia, 253; rivularis, 632; rupicola, 582, 632; tetonensis, 358, 359

Anemonella thalictroides, 253
Angelica Grayi, 361; Roseana, 358, 359
Ankistrodesmus nitzschioides, 473; setigerus, 473
Anomobryum filiforme, 68, 328; procerrimum, 67, 68
Anoectangium Mougeotii, 240
Anomodon attenuatus, 240; rostratus, 240
Antennaria acuta, 362; anaphaloides, 355; aprica, 357; chilensis, 320; chlorantha, 362; corymbosa, 351; fallax, 266; magellanica, 320; microphylla, 357; media, 349; monocephala, 354; nana, 644; neglecta, 267; neodioica, 266; petaloidea, 267; plantaginifolia, 265; plantaginifolia petiola, 265; rosea, 349; sedoides, 357; umbrinella, 355
Anthemis Cotula, 272
Anthiphylla oppositifolia, 347
Anthoceros laevis, 239
Anthracothecium **tetraspermum,** 148
Anthropogon barbellatum, 361; elegans, 357
Anticlea coloradensis, 360
Apocynaceae, 640
Apocynum venetum, 640
Aquilegia columbiana, 351; elegantula, 360; formosa, 353; Jonesii, 358; larimensis, 363; oreophila, 360; saximontana, 360; scopulorum, 363; vulgaris, 588; vulgaris pyrenaica, 582, 632; vulgaris viscosa, 632
Arabis alpina, 634; ambigua, 353; Drummondii, 355; exilis, 358; glabrata, 634; glandulosa, 634; Lyallii, 351; oblanceolata, 363; oreophila, 358, 359; rupestris, 355; tibetica, 586, 634
Archeria Boltoni, 477
Arachnites uniflora, 311
Aragallus alpicola, 358; deflexus, 357; foliolosus, 358; Hallii, 363; oreophilus, 361; Parryi, 361; viscidus, 358; viscidulus, 358
Aralia racemosa, 242
Arctium Lappa, 275, 583, 589, 646; minus, 274; tomentosum, 275
Arctous erythrocarpa, 353
Arenaria andicola, 314; foliosa, 582, 632; Fendleri, 360; Griffithsii, 582, 632; holosteoides, 585, 632; kashmirica, 632; lithophila, 358; musciformis, 585, 632; norvegica, 349; salmonensis, 353; serpyllifolia, 588, 632; serpylloides, 314; Stracheyi, 632; Tweedyi, 360
Argentina subarctica, 354
Arjona pusilla, 313; tuberosa, 313
Arisaema quinatum, 95; triphyllum, 242
Armeria chilensis, 317
Arnebia tibetana, 641; Thomsoni, 641
Arnica cordifolia, 349; macilenta, 362; ovata, 362; Parryi, 355; pedunculata, 349; pumila, 357; rhizomata, 357; Rydbergii, 355; subplumosa, 357; tenuis, 363
Artemisia Absinthium, 274, 646; amygdalina, 583, 646; annua, 273; biennis, 273, 645; caudata, 273; desertorum, 645; Dracunculus, 645; Falconeri, 645; laciniata, 645; macrocephala, 646; maritima, 645; minor, 586, 646; parviflora, 645; Pattersonii, 362; persica, 645; pontica, 274; Richardsoniana, 354; sacrorum, 645; salsoloides, 583, 645; saxicola, 363; scopulorum, 357; scoparia, 645; Siversiana, 646; spithamaea, 346; stelleriana, 274; Stracheyi, 646; stricta, 645; Tournefortiana, 645; vulgaris, 273
Arthonia atrata, 149; conferta, 149; polymorpha, 149; rubella, 149
Arthothelium spectabile, 149
Asarum canadense, 242, 253
Asclepiadaceae, 640
Asperugo procumbens, 641
Aspidium mohrioides, 309; noveboracense, 252; spinulosum, 242
Asplenium acrostichoides, 242; angustifolium, 95; bulbiferum, 376, 382; Filix-femina, 261, 373, 382; magellanicum, 309; platyneuron, 375, 382; pycnocarpon, 95; Trichomanes, 242
Aster acuminatus, 244; alpinus, 357; apricus, 355; Canbyi, 362; Fremontii, 357; heterochaeta, 583, 586, 644; paniculatus, 261; tibeticus, 581, 586, 644; Vahlii, 321
Astragalus adesmiaefolius, 636; alpinus, 587; brevicaulus, 315; cicerifolius, 637; ciliolatus, 636; coluteocarpus, 582, 637; confertus, 636; **Dusenii,** 315; Falconeri, 636; frigidus, 581, 582, 637; Heydei, 636; himalayanus, 582, 636; hypoglottoides, 637; macropterus, 580, 636; multiceps, 637; Munroi, 580, 637; melanostachys, 582, 636; nivalis, 580, 637; ophiocarpus, 636; oxyodon, 636; patagonicus, 316; pedunculatis, 637; rhizanthus, 582, 637; Royleanus, 637; strictus, 636; subulatus, 583, 637; tibetanus, 582, 636; tribulifolius, 636; Webbianus, 637; zanskarensis, 637
Atelanthera perpusilla, 634
Atelephragma elegans, 357; debilis, 358; Forwoodii, 358, 359
Atriplex crassifolia, 580, 585, 631; hortensis, 631; rosea, 585, 588, 631
Avena fatua, 548, 554, 588, 627; Mortoniana, 360; sativa, 637; striata, 345
Axyris amaranthoides, 582, 631; amaranthoides humifusa, 631
Azaliastrum albiflorum, 351
Azorella trifoliata, 317; trifurcata, 317

Baccharis Darwinii, 319; halmifolia, 265;

magellanica, 319; patagonica, 319; **Shaferi,** 461
Bacidia fuscorubella, 153
Balsaminaceae, 638
Barbarea vulgaris, 587
Barbula costata, 325; Eubryum, 66; exesa, 67; pruinosa, 325; replicata, 325; subulatula, 326
BARTHOLOMEW, E. T. Observations on the fern rust Hyalopsora Polypodii, 195
Bartramia pomiformis, 240, 308
Bauhinia gigantea, 295; **Jenningsii,** 463; marylandicus, 295; **ripleyensis,** 285, 294
Bazzania trilobata, 244
BENEDICT, R. C. The origin of new varieties of Nephrolepis by orthogenetic saltation. I. Progressive variations, 207
Benzoin aestivale, 243
Berberidaceae, 314, 633
Berberis empetrifolia, 314; ilicifolia, 314; microphylla, 314; ulicina, 633; vulgaris, 588, 632
Bermuda, The lichens of, 145
BERRY, E. W. Contributions to the Mesozoic flora of the Atlantic coastal plain,—XI. Tennessee, 283
Besseya alpina, 361; gymnocarpa, 357; plantaginea, 361; reflexa, 363; Ritteriana, 362
Betula alba papyrifera, 252; glandulosa, 345; utilis, 578, 630
Betulaceae, 630
Biatora **fuscorubescens,** 152
BICKNELL, E. P. The ferns and flowering plants of Nantucket—XVII, 265
Bidens cernua, 269; cernua elliptica, 269; connata, 269; frondosa, 270; petiolata, 269; vulgata, 257, 270
Biebersteinia Emodii, 586, 637
Bilimbia **Brittoniana,** 152; **floridana,** 152; **sphaeroides vacillans,** 153
Bistorta bistortoides, 349; linearifolia, 356; vivipara, 346
Blastenia floridana, 159
Blephariglottis conspicua, 408
Blumea bifoliata, 644
Boehmeria cylindrica, 261
Boraginaceae, 318, 641
Botanical work of Dr. E. W. Hilgard, 389
Botrychium Lunaria, 309; virginianum, 252, 257
Brachyactis robusta, 644; umbrosa, 644
Brachythecium asperulum, 333; flaccum, 333; rivulare, 239; plumosum, 241; sericeovirens, 333; stereopoma, 334
Branched prothallia in the Polypodiaceae, 365
Brassica juncea, 588; Napus, 634; nigra, 588
Braunia canescens, 330; Elliottii, 70
Braya alpina, 586, 634; humilis, 587; rosea, 634; tibetica, 634; uniflora, 634
Breutelia bryocarpa, 329; tomentosa, 330
BRITTON, N. L. Studies of West Indian plants—VIII, 441
Briza media, 588, 627
Bromus altissimus, 261; barbatus, 585, 628; ciliatus, 345; coloratus, 309; crinitus, 585, 627; macrostachys, 585, 628; oxyodon, 628; patulus, 627; polyanthus, 349; tectorum, 580, 588, 627
Bryaceae, 625
Bryum andicola, 328; argenteum, 328; **biforme,** 328; canariense, 69; **canariensiforme,** 68; densifolium, 329; polytrichoideum, 69; procerrimum, 68; promontorii, 68; provinciale, 69; tibeticum, 582, 625
Buellia canescens, 158; myriocarpa, 159; parasema, 159
Bulbostylis alpestris, 446; capillaris, 447; fimbriata, 446; floccosa, 445; leucostachys, 445; paradoxa, 444; subaphylla, 446; Tuerckheimii, 446
Bupleurum falcatum, 583, 639; falcatum nigrocarpa, 581, 639; tenue, 639
Byrsonima lucida, 456; **ophiticola,** 456

Caesalpiniaceae, 294
Caesoma interstitiale, 559; nitans, 559–569
Calamagrostis canadensis, 345; Langsdorfi, 345; littorea, 627; purpurascens, 345; Stoliczkai, 627
Calamintha umbrosa, 642
Calceolaria biflora, 318; **Pritchardi,** 318; tenella, 318; uniflora, 318
Callymenia reniformis, 171, 173
Caltha leptosepala, 358; rotundifolia, 360
Calyceraceae, 319
Calyptranthes Boldinghi, 466; Maxoni, 466; nummularia, 466; **pinetorum,** 465
Cambial activity in certain horticultural plants, 533
Campanula, 589; argyotricha, 644; aristata, 583, 644; colorata tibetica, 644; cashmiriana, 644; heterodoxa, 354; latifolia, 583, 644; Parryi, 362; petiolata, 346
Campanulaceae, 644
Camptosorus, 366; rhizophyllus, 372, 382
Campylopus aethiops, 65; **angolensis,** 65; flexuosus, 65; introflexus, 65; leucognodes, 324
Capnorchis brachycarpum, 363
Capparidaceae, 634
Capparis spinosa, 634
Caprifoliaceae, 644
Capsella elliptica, 634; Thomsoni, 634
Caragana cuneata, 636; pygmea, 581, 586, 636
Cardamine acuminata, 355; hirsuta, 314;

macrophylla, 634; pratensis, 587; umbellata, 349
Carduus nutans, 589, 646; Thomsoni, 646
Carex adusta, 616, 617; **abrupta,** 604, 618, 620; aenea, 347; albonigra, 356; **amplectens,** 603, 611; athrostachys, 349, 603; atrata, 345; atrotiformis, 347; aurea, 345; Banksii, 310; bella, 360; brunnescens, 345; canescens, 345; capillaris, 346; capitata, 347; chalciolepis, 356; chimaphila, 356; **convoluta,** 424, 428; **Davyi,** 602, 606, 615; deflexa, 347; diluta, 628; Douglasii, 349; eburnea, 360; Egglestonii, 360; elynoides, 360; Engelmanii, 355; festiva, 611; festivella, 349; feta, 602; Geyeri, 355; glaucescens, 407; Goodenovii, 587; **gracilior,** 603, 614; gynocrates, 345; haematostoma, 628; Halleri, 346; Hassei, 347; **Harfordii,** 604, 615; Heliomastes, 347; Hepburnii, 345; hirtella, 628; illota, 349; inconspicua, 310; incurva, 628; **integra,** 604, 608; interior, 345; laeviculmis, 351; **lancifructus,** 602, 607; leporina, 602; **leporinella,** 602, 605; leptalea, 345; livida, 347; MacCallae, 353; **mariposana,** 604, 619; microglochin, 628; microptera, 603; Mertensii, 351; miliaris, 347; misandra, 346; Moorcroftii, 585, 628; **multicostata,** 602, 604; multimoda, 611; neglecta, 425; Nelsonii, 360; nigricans, 349; nivalis, 584, 628; nova, 349; obtusata, 345; occidentalis, 360; oligocarpa, 628; **olympica,** 603, 610; **pachycarpa,** 604, 616; pachystachya, 611; parva, 628; **paucifructus,** 604, 615; petasata, 355, 606; phaeocephala, 349, 602; physocarpa, 353; praticola, 602; Preslii, 611; pseudoscupoidea, 356; pyrenaica, 355; radiata, 425, 432; Reynoldsii, 349; rigida, 582, 587, 628; rosea, 423, 435; rosea radiata, 423; rosea minor, 423; Rossii, 345; rostrata, 346; scirpoidea, 347; siccata, 345; stellulata, 424; stenochlaena, 351; stenophylla, 587, 628; straminiformis, 602; **sub-bracteata,** 603, 612; subfusca, 603, 608, 609; supina, 347; **teneraeformis,** 603, 609; tenuirostrus, 603, 605; Tolmiei, 351; trisperma, 424; vaginata, 347; venustula, 353; verrucosum, 95, 407; vulgaris, 628
Carex, Notes on, —X, 423; —XI, 601
Carex rosea and its allies, 423
Carpinus caroliniana, 243, 252
Carum Carvi, 588, 639
Carya cordifolia, 262; cordiformis, 252
Caryophyllaceae, 3, 13, 631
Casasia **parvifolia,** 461
Cassia bahamensis, 459; domingensis, 459; nictitans, 463; procumbens, 463; pygmaea, 463; **scleroxyla,** 458; **Shaferi,** 459
Cassine magellanica, 316
Cassiope Mertensiana, 352; saximontana, 362; tetragoma, 347
Castilleja brunnescens, 362; confusa, 362; lanata, 357; lancifolia, 357; lutea, 351; occidentalis, 357; pallescens, 351; pallida, 354; puberula, 362; pulchella, 359; rhexifolia, 357; Tweedyi, 359
Catabrosa aquatica, 345, 587, 627; Thomsoni, 627
Catharinaea undulata, 239, 246
Caulophyllum thalictroides, 242, 253
Celastraceae, 316
Centaurea Cyanus, 276; depressa, 646; melitensis, 276
Cephaloziella Hampeana, 240
Cerastium arvense, 313; beeringianum, 349; Earlei, 360; oreophilum, 360; scopulorum, 356; strictum, 356; trigynum, 632; variabile, 360; vulgatum, 588, 632; vulgatum nepalense, 632; vulgatum tibetica, 632
Cestrum **pinetorum,** 461
Chaerophyllum acuminatum, 583, 639; villosum, 639
Chaetosphaeridium globosum, 471; **ovalis,** 471; Pringsheimii, 471
Chamaecrista **micrantha,** 463; **savannarum,** 463
Chamaerhodos subulosa, 636
Chamaesyce **Cowellii,** 457; **Jenningsii,** 465
Characium stipitatum, 472
Cheiranthus albiflorus, 634; himalayensis, 634; Stewartii, 634
Cheirinia amoena, 360; nivalis, 360; oblanceolata, 360; radicata, 360
Chenolea divaricata, 631
Chenopodiaceae, 313, 631
Chenopodium album, 313, 585, 588, 631; antarcticum, 313; Botrys, 588, 631; Blitum, 631; glaucum, 588, 631; hybridum, 587, 631
Chiloscyphus rivularis, 239
Chimaphila umbellata, 246
Chiodecton Montagnei, 151
Chiogenes hispidula, 347
Chionophila Jamesii, 361
Chlamydomonas stipitata, 472
Chloraea Kingii, 312; magellanica, 312; pleistodactyla, 312
Chloris virgata, 627
Chodatella ciliata, 477; ciliata **minor,** 477; subsalsa, 477
Chondriella graminea, 647
Chorispora sabulosa, 582, 634
Christolea crassifolia, 580, 586, 634
Chroococcus limneticus, 481; limneticus **distans,** 481
Chrysanthemum Balsamita, 273; Leu-

canthemum, 272; Leucanthemum pinnatifidum, 272; Parthenium, 273; Parthenium breviradiatum, 273; Richteria, 581, 583, 645; Stoliczkai, 645; tibeticum, 645
Chrysopsis alpicola, 362; asprella, 362; pumila, 357
Chrysosplenium americanum, 242
CHURCH, M. B. The development of the embryo sac and embryo of Cooperia Drummondii, 397
Cibotium Chamissoi, 387; Menziesii, 387
Cicer songaricum, 583, 637
Cinna arundinacea, 261
Cinnamomum Heeri, 285, 298; sp., 285
Circaea alpina, 242; lutetiana, 261
Cirsium arvense, 276; discolor, 275; horridulum, 275; lanceolatum, 275; odoratum, 275
Cissites crispus, 285, 296; Newberryi, 296
Cladonia coccifera, 308; fimbriata barbonica, 153; fimbriata nemoxyna, 153; fimbriata simplex, 153; mitrula, 154; pityrea, 154; rangiformis pungens, 154
Claytonia megarrhiza, 356; virginica, 253
Clematis orientalis, 590, 632; rhodantha, 356
Climacium americanum, 239
Clitoria glomerata, 452
Cnicus arvensis, 589, 646; Wallichii, 646
Cochlearia scapiflora, 633
Codonopsis ovata, 644
Codonorchis Lessonii, 312
Coelosphaerium Naegelianum, 472
Coleosanthus umbellatus, 362
Collema **bermudanum**, 155; flaccidum, 155; furvum, 155; nigrescens, 155; **thamnodes**, 155
COLLINS, F. S. & HOWE, M. A. Notes on species of Halymenia, 169
Collinsonia canadensis, 242
Collomia coccinea, 318; gracilis, 318; debilis, 358, 359
Cololejeunea Biddlecomiae, 241
Colutea arborescens, 636
Comarum palustre, 347
Commelina angustifolia, 97, 105, 108, 407; caroliniana, 97, 99, 407; communis, 97, 98, 407; crispa, 97, 107, 407; dianthifolia, 97, 102; diffusa, 100; elegans, 97, 110, 407; erecta, 97, 104, 105, 407; hirtella, 102, 407; ignorata, 103; longicaulis, 97, 100, 407; longifolia, 102; Nashii, 109; nudiflora, 96, 407; ignorata, 103; Rafinesquei, 105; saxicola, 105; Swingleana, 108; virginica, 97, 102, 407
Commelina (Plumier) L. in the United States, The genus, 96
Compositae, 319, 644
Condrophora americana, 361; Fremontii, 361
Condrosea Aizoon, 348
Coniomitella Williamsii, 358
Conium maculatum, 317
Connecticut, The vegetation of, 235
Conocephalum conicum, 239, 246
Conringia planisiliqua, 634
Contributions to the Mesozoic flora of the Atlantic coastal plain—XI. Tennessee, 283
Convolvulaceae, 640
Convolvulus arvensis, 588, 640
Cooperia Drummondii, The development of the embryo sac and embryo of, 397
Coprosmanthus herbaceus, 414; pedunculatis, 414; tenuifolius, 411
Cordia Sebestena brachycalyx, 457
Corispermum hyssopifolium, 587, 631
Coronopus australis, 314
Cortaderia pilosa, 309
Corydalis adiantifolia, 633; crassifolia, 586, 633; flabellata, 580, 633; Gortschakovii, 582, 633; meifolia, 584, 633; Moorcroftiana, 633; stricta, 586, 633; tibetica, 633
Corylus americana, 246
Cotoneaster acuminata, 635; nummularia, 635; vulgaris, 635
Cousinia Falconeri, 581, 646
Crambe cordifolia, 634
Crassulaceae, 635
Cratoneuron filicinum, 241
Cremanthodium Decaisnei, 583, 646; oblongatum, 646
Crepis flexuosa, 647; Stoliczkai, 647; tenuifolia, 647
Crescentia **portoricensis**, 457
Cruciferae, 314, 633
Cryptotaenia canadensis, 242
Cryptocarpus Curtisii, 117
Ctenidium malacodes, 333
Culcitium magellanicum, 320
Cuscuta capitata, 583, 640; europaea, 588, 640
Cyclodictyon aeruginosum, 332
Cylindrospermum stagnale **angustatum**, 481
Cynanchum acutum, 581, 640; glaucum, 640; Heydei, 640
Cynoglossum petiolatum, 641; Wallichii, 641
Cyperaceae, 310, 628
Cyperus cyperoides, 441; fugax, 441; granularis, 441; Haspan, 462; nanus, 441, 442; **ignotus**, 442; **pinetorum**, 462
Cypripedium passerinum, 347
Cystium platytropus, 358
Cystopteris bulbifera, 242; fragilis, 195, 242, 309, 582, 587, 625
Cytherea bulbosa, 346; occidentalis, 353

Dactylis glomerata, 588, 627

Danthonia californica, 349; kashmiriana, 627
Dasiphora fruticosa, 346
Dasystephana affinis, 357; calycosa, 353; glauca, 353, 354; monticola, 358; Parryi, 361; Romanzovii, 357
Delesseria sinuosa, 180
Delphinium attenuatum, 363; Barbeyi, 360; Brunonianum, 581, 582, 584, 585, 632; cashmirianum, 582, 632; occidentale, 360
Dentaria diphylla, 253; laciniata, 253; rupicola, 353
Deschampsia atropurpurea, 345; caespitosa, 345, 585, 587, 627; curtifolia, 356; flexuosa, 309; koelerioides, 627
Desmopsis, 184; **bibracteata,** 190, 192, 193; **Galeottiana,** 185–188; **Maxonii,** 185, 188, 193; **panamensis,** 185, 189, 192, 193; **Oerstedii,** 191
Desmopsis, A new genus of Annonaceae, 183
Desmos, 183, 185; chinensis, 183, 184; cochinchinensis, 183
Dewalquea insignis, 294; Smithi, 285, 293
Development of the embryo sac and embryo of Cooperia Drummondii, The, 397
Development of the embryo and seedling of Dioscorea villosa, The, 545
Deyeuxia compacta, 627; scabrescens, 627
Dianthus anatolicus, 582, 584, 632; angulatus, 632; crinitus, 632; deltoides, 588, 632; Seguieri, 632
Dicentra cucullaria, 253
Dichotomaria, 621
Dicranum fulvum, 241; Mittenii, 323
Didymodon afer, 66; rubellus, 240
Dilophia salsa, 633
Dioclea galactioides, 451; rudolphioides, 449
Diodia **arenicola,** 467; **ciliata,** 467
Diospyros primaeva, 285; virginica, 303
Dioscorea bonariensis, 546; brasiliensis, 546; cordifolia, 546; paniculata, 545; pyrenaica, 546, 555; sinuosa, 546; villosa, 545
Dioscorea villosa, The development of the embryo and seedling of, 545
Discaria discolor, 316
Disporum trachycarpum, 356
Distegia involucrata, 345
DIXON, H. N. New and rare African mosses, from Mitten's herbarium and other sources, 63
Dodecatheon uniflorum, 363
Doronicum Falconeri, 646
Douglasia montana, 358; nivalis, 362
Draba alpina, 582, 634; andina, 356; aurea, 346; aureformis, 361; brachystylis, 363; chrysantha, 361; crassa, 356; crassifolia, 346; densiflora, 358; eurocarpa, 353; fladnizensis, 346; glacialis, 582, 634; graminea, 361; incana, 634; lasiophylla, 584, 634; lonchocarpa, 351; luteola, 361; nitida, 349; oligosperma, 349; Parryi, 360; pectinata, 350; spectabilis, 361; sobolifera, 363; streptocarpa, 361; tibetica, 634; ventrosa, 363
Dracocephalum heterophyllum, 586, 642; nutans, 583, 642; stamineum, 642
Drepanocladus aduncus, 77; **Hallii,** 77; **longifolius,** 332
Drimys Winteri, 314
Drosera longifolia, 2, 3, 348; rotundifolia, 1–27, 347; Whittakeri, 3
Drosera rotundifolia, Physiological observations on, 1
Drymocallis fissa, 361; pseudorupestria, 351; pumila, 350
Dryophyllum gracile, 285, 290
Dugaldia Hoopesii, 349
Duthiea bromoides, 628

Ebenaceae, 303
Echinops cornigerus, 646; niveus, 646
Echinospermum barbatum, 641; Redowskii, 641; semiglabrum, 641
Edwinia macrocalyx, 363
Elaeagnaceae, 638
Elaeagnus hortensis, 638
Eleocharis microcarpa, 442; nodulosus, 442; paulstris, 587, 628
Elephantella groenlandica, 346
Elephantopus **arenarius,** 468; pratensis, 468
Elodea canadensis, 255
Elsholtzia cristata, 642; densa, 583, 642; pusilla, 584, 642
Elymus canadensis, 261; dahuricus, 582, 628; dasystachys, 628; glaucus, 349; sibiricus, 628; simplex, 360
Embothrium coccineum, 313
Encalypta contorta, 241
Endophyllum, 566; Sempervivi, 566
Endymion nutans, 400
Entodon **brevirameus,** 72; Dregeanus, 72; platygyrioides, 331
Ephedra Gerardiana, 580, 582, 626; intermedia, 626
Epilobium alpinum, 346; anagallidifolium, 346; angustifolium, 583, 587, 638; clavatum, 357; Drummondii, 355; Hornemannii, 346; latifolium, 583, 638; latiusculum, 358; minutiflorum, 638; ovatifolium, 361; patagonicum, 317; Royleanum, 581, 638; stramineum, 361; wyomingense, 357
Epipactis latifolia, 629
Equisetaceae, 626
Equisetum arvense, 257, 587, 626; diffusum, 626; fluviatile, 255; ramosissimum, 626

Eragrostis minor, 588
Erechtites hieracifolia, 274
Eremurus himalaicus, 629
Erianthus Ravennae, 626
Ericaceae, 301
Erigeron alpinus, 320, 347, 644; alpinus multicaulis, 583; alpinus uniflorus, 583, 644; andryaloides, 581; bellidoides, 644; compositus, 346; Coulteri, 349; elatior, 362; flabelliformis, 363; flagellaris, 357; formosissimum, 362; glabellus, 357; glandulosus, 362; grandiflorum, 355; jucundus, 346; Kingii, 350; leiomeris, 362; lanatus, 354; melanocephalus, 362; multicaulis, 644; multiradiatus, 644; pedatus, 351; pinnatisectus, 362; pulchellus, 246; purpureum, 347; **purpuripes,** 468; radicatus, 359; superbus, 362; spiculosus, 320; trifidus, 357; unalaschkensis, 347
Eriocaulon decangulare, 95; lineare, 390; septangulare, 390
Eriogonum arcuatum, 360; caespitosum, 358; chloranthum, 360; flavum, 356; heracleoides, 358, 359; neglectum, 360; Piperi, 351; polyphyllum, 351; pyrolaefolium, 353; umbellatum, 349
Eriophorum alpinum, 348; angustifolium, 345; Chamissonis, 347; Scheucheri, 348
Eritrichium strictum, 581, 641; spathulatum, 641; tibeticum, 641
Erodium cicutarium, 316, 588, 637; Stephanianum, 637; tibetanum, 637
Erpodium grossirete, 70; Hanningtonii, 69; Joannis-Meyeri, 69; Menyhardtii, 69
Ervum lens, 637
Eryngium Billardieri, 639
Erysimum hieracifolium, 634; odoratum, 634
Erythrodontium squarrosum, 331
Erythronium, 399; americanum, 252; grandiflorum, 351; obtusum, 358; parviflorum, 360
Escallonia Britteniana, 314; rubra, 314
Euclidium syriacum, 634
Eugenia **anceps,** 285, 301
Eupatorium articaefolium, 261; purpureum, 261
Euphorbia Maddenii, 638; portulacoides, 316; Thomsoniana, 638; tibetica, 638
Euphorbiaceae, 295, 316, 638
Euphrasia mollis, 354; officinalis, 643
Eurotia ceratioides, 580, 585, 631
Evolvulus **arenicola,** 466

Fabronia, 73; andina, 332; polycarpa, 332; **Wageri,** 73
Fagaceae, 29[illegible], 313
Fagopyrum esculentum, 631; tartaricum, 631
Ferns and flowering plants of Nantucket, The, —XVII, 265
Fertilization in Fritillaria pudica, 505
Ferula Jaeschkeana, 639
Festuca, 589; altaica, 627; arizonica, 360; crassipes, 285, 291; curtifolia, 345; gracillima, 309; minutiflora, 360; Myuros, 588, 627; nitidula, 627; purpurascens, 310; rubra, 585, 587, 627; sibirica, 627; Thurberi, 360
Ficus atavina, 291; crassipes, 285, 291; Krausiana, 285, 291; Mohliana, 292; ovatifolia, 285, 293; Woolsoni, 293
Filago arvensis, 644
Fimbristylis miliacea, 443
Fissidens adiantoides, 239; asplenioides, 324; crispus, 324; cristatus, 241; incurvus, 239; rigidulus, 324; subobtusatus, 65
Flora of Ladak, Western Tibet, The,—I. Discussion of the flora, 571; —II. Check list of Ladak plants, 625
Fontinalis, 239; dalecarlica, 239; gigantea, 239; Lescurii, 239
Fragaria bracteata, 349; glauca, 357
Fraxinius americana, 260, 263; excelsior, 640; nigra, 263; pennsylvanica, 260, 263
Fritillaria pudica, 505; Roylei, 629; tenella, 505
Frullania Asagrayana, 240; riparia, 241
Fuchsia magellanica, 317
Funaria calvescens, 328; submicrostoma, 580, 625
Fumariaceae, 625
Furlong, Charles Wellington, Plants from southern Patagonia collected by, 305
Further records of Jamaica sedges, 441
Further studies of the orange rusts of Rubus in the United States, 559

Gagea persica, 629
Galactia angustifolia, 450; Berteriana, 450; brachyodon, 449, 451; Combsii, 448, 450; cubensis, 450; **Earlei,** 448, 450; galactioides, 449, 451; Grisebachii, 449; impressa, 451; **Jenningsii,** 449, 451; Jussiaeana, 449, 452; minutifolia, 448, 449; monophylla, 448, 449; Odonia, 449; parvifolia, 448, 449; revoluta, 449, 451; rudolphioides, 448, 449; **savannarum,** 449, 452; spiciformis, 448, 450; stenophylla, 449; striata, 448, 450; **suberecta,** 448, 450
Galactia P. Br. in Cuba, 448
Galaxaura obtusata, A note on the structural dimorphism of sexual and tetrasporic plants of, 621
Galinsoga **aristulata,** 270; brachystephana, 270; caracasana, 271; hispida, 270, Humboldtii, 271; parviflora, 270, 271; parviflora hispida, 270; quadriradiata, 271; quinquiradiata, 271; urticaefolia, 271
Galium Aparine, 319, 587, 643; boreale,

583, 587, 643; pauciflorum, 586, 643; tricorne, 643; verum, 583, 589, 643
Gaultheria humifusa, 348; ovatifolia, 351
Gayophytum racemosa, 349
Gentiana aquatica, 586, 640; aurea, 583, 640; borealis, 640; carinata, 583, 640; decumbens, 583, 640; Hugelii, 640; humilis, 581, 640; leucomelaena, 640; Moorcroftiana, 583, 640; patagonica, 318; pseudo-humilis, 640; pygmaea, 640; serrata, 581, 640; serrata **Stracheyi,** 640; squarrosa, 640; tenella, 583, 640; Thomsoni, 640
Gentianaceae, 318, 640
Genus Machaonia H. & B. in Cuba, The, 452
Georgia pellucida, 246
Geraniaceae, 637
Geranium collinum, 583, 637; grandiflorum, 637; maculatum, 246; magellanicum, 316; Pattersonii, 361; polyanthes, 637; pratense, 637; sessiliflorum, 316; sibiricum, 637
Gerardia **pinetorum,** 466
Geum magellanicum, 315; rivale, 346
Gifola germanica, 589, 644
Gilia globularis, 361
Glaux maritima, 587, 639
Globulina **peruviana,** 325
Gloeocystopsis, 474; **limneticus,** 475
Gloesocystis Rehmanni, 475
Glyceria distans, 627; poaeoides, 627; Thomsoni, 627
Glyphis cicatricosa, 151
Glyphomitrium incurvum, 241
Gnaphalium obtusifolium, 267; purpureum, 268, 320; spicatum, 320; Stewartii, 645; uliginosum, 257, 268
Gnetaceae, 626
Golenkinia botryoides, 477; fenestrata, 477
Gomphosphaeria Naegeliana, 472
Gormannia debilis, 363
Gramineae, 309, 626
Graphis Afzelii, 150; Lineola, 150; Pavoniana, 150; scripta, 151; scripta serpentina, 151; striatula, 151
Graphephorum muticum, 349; Wolfii, 360
Griffiths, D., Additional species of Opuntia, 523; New species of Opuntia, 83
Grimaldia fragrans, 241
Grimmia apocarpa, 239; conferta, 240; micro-ovata, 327; ovata, 327; **rivulariopsis,** 327
Gyalecta Farlowi, 145, 152; hyalina, 152
Gymnoconia interstitialis, 559–569
Gymno-ischyrodon, 73
Gymnostomum, rupestre, 244
Gypsophila, 632
Gyrostomum scyphuliferum, 151
Gyrotheca tinctoria, 408
Habranthus gracilifolius Borthianus, 398
Haematomma puniceum, 158
Halarachnion ligulatum, 173
Halenia elliptica, 640
Haloragidaceae, 638
Halocharis violaceae, 631
Haloxylon Thomsoni, 631
Halymenia actinophysa, 169, 180, 181, 182; **bermudensis,** 169, 173, 180, 182; **echinophysa,** 180, 181; Floresia, 169–179; floridana, 169–176, 182; floridana dentata, 177; **Gelinaria,** 173, 175–177, 179, 182; **pseudofloresia,** 177–179, 182
Halymenia, Notes on species of, 169
Halymenites major, 285, 303
Hamamelis virginiana, 243
Haplocladium amplexicaule, 76; angustifolium, 76; afro-capillatum, 76; capillatum, 76
Haplohymenium triste, 240
HARPER, R. M. Botanical work of Dr. E. W. Hilgard, 389
HARRIS, J. A. A quantitative study of the factors influencing the weight of the bean seed—II. Correlation between number of pods per plant and seed weight, 485
Hedwigia albicans, 240, 330; imberbe, 330
Hedysarum Mackenzii, 354; microcalyx, 583, 637; sulphurescens, 351
Helenium autumnale, 261; **scaposum,** 469
Helianthus annuus, 505, 506, 268; divaricatus, 268; scaberrimus, 269; strumosus, 268; tuberosus, 269
Heleochloa schoenoides, 626
Hemerocallis, 399
Hemieva ranunculifolia, 351
Hepatica triloba, 253
Heptanthus brevipes, 454, 455; cochleariifolius, 454; **cordifolius,** 454, 455; **lobatus,** 454, 455; ranunculoides, 454, 455; **Shaferi,** 454, 455
Heracleum candicans, 639; pinnatum, 639; Thomsoni, 639
Herminium Monorchis, 629
Heuchera flabellifolia, 359; flavescens, 361; glabra, 353; grossularifolia, 359; ovalifolia, 351; parviflora, 356
Hieracium austro-americanum, 320; triste, 320
Hilgard, Botanical work of Dr. E. W., 389
Hippeastrum solandriflorum, 403
Hippophae rhamnoides, 638; salicifolia, 638
Hippurus vulgaris, 346, 638, 587
Homalobus Bourgovii, 358; humilis, 361
HOOKER, H. D., JR. Physiological observations on Drosera rotundifolia, 1
Hordeum jubatum, 345; nodosum, 628; vulgare, 628
HOWE, M. A. A note on the structural

dimorphism of sexual and tetrasporic plants of Galaxaura obtusata, 621
HOWE, M. A. & COLLINS, F. S. Notes on species of Halymenia, 169
Hulsea carnosa, 359
Hyalopsora Polypodii, Observations on the fern rust, 195
Hydrocotyle americana, 242
Hydrophyllaceae, 318

Hygrohypnum dilatatum, 239, 241; eugyrium, 239, 241; ochraceum, 239; **peruviense,** 332
Hylocomium brevirostre, 240; splendens, 244
Hymenopappus cinereus, 362
Hymenostylium curvirostre, 240, 241
Hyoscyamus pusillus, 642
Hypecoum, 586, 633
Hypericaceae, 638
Hypericum perfoliatum, 583, 638
Hypnum Schreberi, 244, 333

Ibidium Beckii, 408
Impatiens, 581; biflora, 261; brachycentra, 583, 638; pallida, 242; Thomsoni, 583, 638
Index to American botanical literature, 57, 113, 161, 201, 277, 335, 393, 435, 495, 539, 591, 651
Inula Helenium, 268; barbata, 583, 645; Falconeri, 645; Helenium, 268; obtusifolia, 645; rhizocephaloides, 583, 645; Royleana, 645
Iridaceae, 311, 629
Iris ensata, 629; kamaoensis, 629; stylosa, 399
Isolepis conifera, 445; junciformis, 442, 447; leucostachya, 445; vestita, 446
Isopyrum grandiflorum, 585, 632
Ivesia Gordonii, 349; utahensis, 350

Jaeschkea latisepala, 640
Jubula pennsylvanica, 239
Juglandaceae, 630
Juglans cinerea, 252; nigra, 505, regia, 630
Juncaceae, 628, 310
Juncaginaceae, 626
Juncoides arcticum, 348; arcuatum, 348; glabratum, 351; hyperboreum, 347; intermedium, 346; parviflorum, 346; spicatum, 346; subapetalum, 360
Juncus effusus, 257; Drummondii, 349; Hallii, 360; himalensis, 629; lampocarpus, 629; leucomelas, 629; membranaceus, 582, 629; Mertensianus, 349; nevadensis, 353; Parryi, 349; Regelii, 353; sphacelatus, 628; triglumis, 629
Juniperus, 581; communis, 587, 626; macropoda, 582, 626; Wallichiana, 626
Jurinea ceratocarpa, 583, 646; ceratocarpa depressa, 583, 646

Kallymenia reniformis, 181
Kalmia latifolia, 243; microphylla, 348
Kentrophyta tegetaria, 350
Kirchneriella contorta, 473; **elongata,** 473
KNUDSON, L. Cambial activity in certain horticultural plants, 533
Kobresia capillifolia, 628; macrantha, 628; pygmaea, 628; Royleana, 628; Royleana Kokanica, 628; schoenoides, 585, 628
Kochia odontoptera, 631; prostrata, 580, 631
Koeleria argentea, 627; cristata, 587, 627
Koelpinia linearis, 583, 646
KUNKEL, L. O. Further studies of the orange rusts of Rubus in the United States, 559

Labatia **aristata,** 460
Labiatae, 641
Lactuca, 589; decipiens, 584, 647; longifolia, 647; orientalis, 647; sativa, 647; Scariola, 584, 589, 647; tartarica, 647; undulata, 647
Ladak, The flora of, 571, 625
Lagostis glauca, 583, 643; globosa, 643
Lamium album, 583, 642; amolexicaule, 588, 642; rhomboideum, 642
Lancea tibetica, 580, 581, 642
Laportea canadensis, 242, 259
Larix Lyallii, 350, 351
Larnalles, 105; dichotoma, 105; glauca, 105
Lathyrus altaicus, 637; arizonicus, 361; magellanicus, 316; sativus, 637
Lauraceae, 297
Laurophyllum elegans, 285, 297; nervillosum, 298
Lavatera kashmiriana, 581, 583, 638
Ledum glandulosum, 348; groenlandicum, 347
Lecanora bermudensis, 157; cinereocarnea, 157; cinereocarnea **athallina,** 157; cinereocarnea **rugosa,** 157; claronella, 157; glaucomodes conflectens, 157; pallida cancriformis, 157; subfusca, 158; varia, 158; varia symmicta, 158
Lecidea euporiza, 152; fuscorubescens, 152; revertens, 152; semiusta, 152; sphaeroides vacillans, 153
Leersia virginica, 257, 261
Leguminoseae, 315, 636
Lejeunea cavifolia, 240
Lemna gibba, 349; minor, 346, 587, 628
Lemnaceae, 628
Lentibulariaceae, 643
Leontopodium alpinum, 581, 583, 586, 644
Lepargyrea canadensis, 345
Lepidium apetalum, 633; capitatum, 586, 633; latifolium, 580, 633; ruderale, 588
Leptasea austromantana, 355; chrysan-

tha, 361; Hirculus, 346; tricuspidata, 348
Leptobryum Wilsoni, 328
Leptodactylon Nuttallii, 349; pungens, 357
Leptodontium **integrifolium,** 324
Leptogium diaphanum; marginellum, 155; tenuissimum, 156; tremelloides, 156
Leptorhabdos Benthamiana, 643
Leptotrema **trypaneoides,** 151
Leskea abbreviata, 74, 75; gracillima, 332
Lesquerella montana, 360; parvula, 360; Wardii, 363
Leuceria lanigera, 320; multifida, 320; patagonica, 320; purpurea, 320; runcianata, 320
Leucodon Draceanae, 71
Leucoloma Holstii, 64
Leucolejeunea clypeata, 240
Leucojum vernum, 401
Lichens of Bermuda, The, 145
Ligusticum filicinum, 358, 359; Porteri, 61; Thomsoni, 581, 639
Lilaea subulata, 548, 554
Liliaceae, 310, 629
Lilium, 399; auratum, 506; Martagon, 505, 506; philadelphicum, 548, 549, 550
Limnocharis, 554
Limnorchis purpurascens, 360
Limnosella aquatica, 587, 642
Linaceae, 637
Lindbergia abbreviata, 74; Austini, 74; **haplocladioides,** 75; **pseudoleskeoides,** 75
Lindelofia Benthami, 581, 641
Linnaea americana, 345; longiflora, 352
Linum perenne, 637
Liriodendron tulipifera, 262
Lithophragma bulbifera, 355
Lithospermum arvense, 588, 641
Lloydia serotina, 346, 629
Loasa argentina, 317; volubilis, 317
Loasaceae, 317
Lolium perenne, 588, 628
Lonicera canadensis, 244; asperifolia, 583; 644; caerulea, 644; glauca, 581, 583, 644; heterophylla, 644; microphylla, 583, 644; Myrtillus, 644; rupicola, 644; spinosa, 581, 586, 644
Lophocolea bidentata, 239; minor, 241
Lophozia alpestris, 244; attenuata, 244; badensis, 241
Lotus corniculatus, 581, 583, 588, 637
Lupinus caespitosus, 357; monticola, 358; parviflorus, 357; pulcherrimus, 358
Lutkea pectinata, 351
Luzula chilensis, 310
Luzuriago marginata, 310
Lychnis apetala, 582, 632; brachypetala, 585; himalayensis, 582, 632; macrorhiza, 585, 632; nutans, 582, 632
Lycium ruthenicum, 642
Lycopodium magellicum, 309; obscurum, 246; Selago, 244
Lycopis arvensis, 588, 641
Lyngbya **Birgei,** 482; Hieronymusii, 482
Lysiella obtusata, 346

Machaonia **calcicola,** 452, 453; **littoralis,** 452; microphylla, 452, 453; pauciflora, 452; trifurcata, 452, 453
MACKENZIE, K. K. Notes on Carex—X, 423; —XI, 601
Macronema discoidea, 350; grindelifolium, 355
Macrotomia Benthami, 641; perennis, 641
Madia sativa, 321
Magnoliaceae, 314
Malapoenna horrellensis, 285, 299
Malcolmia africana, 634
Malpighia **Shaferi,** 456
Malva verticillata, 588, 638
Malvaceae, 638
Manihotites georgiana, 285, 295
Marrubium lanatum, 586, 641
Marsupella emarginata, 240, 241
Matricaria chamomilla, 321
Matthiola odoratissima, 634
Maviscus cyperoides, 441; gracilis, 441; Sieberianus, 441
Maytenus magellanicus, 316
MCALLISTER, F. The morphology of Thallocarpus Curtisii, 117
Meconopsis aculeata, 584, 633
Medeola virginiana, 253
Medicago falcata, 588, 636; lupulina, 588, 636; sativa, 588, 636
Melandrium alpestris, 314; magellanicum, 313
Melanotheca aggregata, 148; cruenta, 148
Melica ciliata, 627; cupani, 627
Melilotus alba, 588, 636; officinalis, 588, 636
Mentha arvensis, 642; longifolium, 588; sylvestris, 642
Menyanthes trifoliata, 346
Mertensia alpina, 361; Bakeri, 361; Drummondii, 362; echioides, 641; lateriflora, 361; nivalis, 361; Parryi, 361; polyphylla, 361; stenoloba, 359; Tweedyi, 359; viridis, 363; virudula, 361
Meteoriopsis remotifolia, 331
Metrosideros, 387; polymorpha, 387
Metzgeria conjugata, 240
Micractinium pusillum, 477, 479; **quadrisetum,** 479
Microphiale lutea, 152
Microthamnium saproadelphum, 64, 78; tenellum, 78
Micranthes arguta, 349; aestivalis, 354; arnoglossa, 357; brachypus, 361; Lyallii, 353; occidentalis, 358; rhomboi-

dea, 357; saximontana, 358; Rydbergii, 358
Microula Benthami, 641
Mielichhoferia andina, 328; bogotensis, 328; procerrima, 68; procumbens, 68; promontorii, 68
Mikania **Stevensiana,** 458
Milium effusum, 587, 626
Mimulus Langsforfii, 349; strictus, 642
Mitracarpum **depauperatum,** 467
Mittenothamnium andicola, 333; oxystegum, 333
Mnium cuspidatum, 246; hornum, 239, 246; ligulatum, 329; orthorrhynchum, 241; punctatum, 239
Moehringia laterifolia, 346; macrophylla, 346
Moneses reticulata, 354; uniflora, 346
Monotropa Hypopitys, 505
Moraceae, 291, 630
Morphology of Thallocarpus Curtisii, The, 117
Morphology of the flowers of Zea Mays, 127
Morus alba, 588, 630
Moschopsis spathulata, 319
Muhlenbergia comata, 349; filiculmis, 360; gracilis, 360; mexicana, 261; racemosa, 345; subalpina, 360; Wolfi, 360
Muscaria adscendens, 357; delicatula, 357; micropetala, 363
Myrcia **havanensis,** 285, 300
Myrica **ripleyensis,** 285, 288
Myricaceae, 288
Myrtaceae, 300
Myricaria elegans, 638; germanica, 638; germanica prostrata, 638
Myurella julacea, 241
Myzodendraceae, 313
Myzodendron linearifolium, 313; quadriflorum, 313; punctulatum, 313

Naiadaceae, 626
Naiocrene parvifolia, 353
Nantucket, The ferns and flowering plants of, —XVII, 265
Nassauvia Darwinii, 321; pygmaea, 321; revoluta, 321; subspinosa, 321
Neckera eucarpa, 331; Jamesoni, 331; Lindigii, 331; pennata, 240
Nemexia biltmoreana, 413; cerulea, 414; diversifolia, 417; ecirrhata, 419; herbacea, 414, 417; herbacea melica, 417; Hugeri, 420; lasioneuron, 417; nigra, 414; pulverulenta, 420; tamnifolia, 411; tenuis, 419
Nepeta botryoides, 641; discolor, 583, 641; eriostachya, 642; floccosa, 581, 642; glutinosa, 584, 642; leucolaena, 583, 642; linearis, 641; longibracteata, 585, 642; nivalis, 586, 642; salviaefolia, 642; Thomsoni, 641; tibetica, 586, 642
Nephralles, 100; parviflora, 100
Nephrocytium allantoideum, 475
Nephrolepis biserrata furcans, 215, 216, 230; cordifolia, 215, 217; davallioides, 216; Duffii, 215; exaltata, 207, 215–217, 224, 230; exaltata bostoniensis, 207–233; tuberosa, 217
Nephrolepis exaltata bostoniensis, sports of, 232
Nephroma antarcticum, 308; arcticum, 308
New and rare African mosses, from Mitten's herbarium and other sources, 63
New or interesting algae from the lakes of Wisconsin, 471
New species of Opuntia, 83
New species of Pritchardia, A, 385
NICHOLS, G. E. The vegetation of Connecticut—V. Plant societies along rivers and streams, 235
Nicotiana rustica, 642; Tabacum, 642
Note on the structural dimorphism of sexual and tetrasporic plants of Galaxaura obtusata, A, 621
Notes on Carex,—X, 423; —XI, 601
Notes on plants of the southern United States—I, 93; —II, 407
Notes on species of Halymenia, 169
Nothofagus antarctica, 306, 313
Nymphaea polysepala, 349

Oakesia sessilifolia, 252
Observations on the fern rust Hyolopsora Polypodii, 195
Oedipodium australe, 67; Griffithianum, 67
Oenothera, 207; Hilgardi, 390; odorata, 317
Oleaceae, 640
Omphalaria cubana, 154; lingulata, 154
Omphalodes Thomsoni, 641
Onagraceae, 317, 638
Oncostylis fimbriata, 446; vestita, 446
Onoclea, 366; sensibilis, 366, 368, 382, 261; Struthiopteris, 260
Oocystis, panduriformis, 471; panduriformis **minor,** 471
Onosma echioides, 641
Opegrapha atra, 149; Bonplandi, 149; chevalieri incarnata, 150; **ophites,** 150; vulgata, 150
Ophioglossaceae, 309
Ophrys borealis, 356; nephrophylla, 355
Opuntia, Additional species of, 523; New species of, 83
Opuntia alta, 84; **anahuacensis,** 92; basilaris, 83, 84; Bergeriana, 531; brachyclada, 84; **calantha,** 524; camanchica, 530; chlorotica, 89; cirbe, 524; **columbiana,** 523; **crystalenia,** 528; **cucumiformis,** 524; **curvospina,** 88;

deltica, 84; **flexospina**, 87; Hanburyana, 529; **ithypetala**, 529; **humistrata**, 83; **laxiflora**, 85; littoralis, 90; **longiclada**, 525; **megalantha**, 530; microcarpa, 527; microdisca, 525; occidentalis, 90; **platynoda**, 526; **pyrocarpa**, 90; **rubiflora**, 529; **semispinosa**, 89; **squarrosa**, 91; **zuniensis**, 86
Orchidaceae, 312, 629
Orchis latifolia, 629; rotundifolia, 348
Oreobroma minima, 363
Oreochrysum Parryi, 362
Oreoxis alpina, 361; Bakeri, 361; humilis, 361
Origanum vulgare, 583, 642
Origin of new species of Nephrolepis by orthogenetic saltation, The,—I. Progressive variations, 207
Orobanchaceae, 643
Orobanche cernua, 643; Hansii, 643
Orontium aquaticum, 255
Oryzopsis lateralis, 626; Munroi, 626
Osmorrhiza Berterii, 317; Leibergii, 351, 352; obtusa, 357
Osmunda Claytoniana, 252
Ostrya virginiana, 252
Ourisia ruelloides, 318
Oxalidaceae, 316
Oxalis acetosella, 244; patagonica, 316
Oxycoccus Oxycoccus, 347
Oxygraphis polypetala, 632
Oxypolis Fendleri, 361
Oxyria digyna, 584, 587, 630
Oxyrrhynchium rusciforme, 239
Oxytropis cachemirica, 581, 637; densa, 586, 637; lapponica, 586, 637; microphylla, 586, 637; mollis, 637; tatarica, 586, 637; Thomsoni, 637
Ozomelis Parryi, 361; stauropetala, 355, 361; trifida, 351

Pachyanthus **reticulatus**, 459; myrsinites, 348
Palicourea **elongata**, 468
Palamocladium leskeoides, 333
Palmae, 288
Panicularia nervata, 345; pauciflora, 349
Panicum agrostoides, 257; miliaceum, 582, 588, 626
Papaver nudicaule, 633
Papaveraceae, 633
Papillaria imponderosa, 331
Paracaryum heliocarpum, 641; himalayense, 641; tibeticum, 641; Thomsoni, 641
Parietaria debilis, 630
Paris quadrifolia, 400
Parmelia latissima cristifera, 158; perlata, 158; tinctorum, 158
Parnassia fimbriata, 349; Kotzebuei, 347; ovata, 635; palustris, 347, 635
Paronychia pulvinata, 360
Parrya exscapa, 634; lanuginosa, 634; macrocarpa, 634
Paspalum ambiguum, 626; Curtisianum, 95
Paulowina tomentosa, 43–56
Pectianthia Breweri, 353; pentandra, 349
Pediastrum, angulosum araneosum, 476; **araneosum**, 476; araneosum **rugulosum**, 476; Boryanum, 476; **sculptatum**, 475
Pedicularis bicornuta, 583, 643; bracteata, 349; cheilanthifolia, 643; dolichorrhiza, 643; Grayi, 362; Hallii, 363; longiflora, 580, 581, 643; lunata, 363; mollis, 643; Oederi, 643; Parryi, 362; pycnantha, 643; racemosa, 349; rhinanthoides, 643; scopulorum, 363; siphonantha, 643; tenuirostris, 643
Peganum Harmala, 638
Pellia epiphylla, 239, 246; Fabroniana, 241
Peltandra virginica, 255
PENNELL, F. W. Notes on plants of the southern United States, —I, 93; —II, 407
Pennisetum flaccidum, 580, 626; lanatum, 626
Pentstemon aridus, 359; caespitosus, 361; crassifolium, 351; fruticosus, 351; Hallii, 361; Harbourii, 361; Lyallii, 359; montanus, 359; procerus, 349; pseudohumilus, 359; stenosepalus, 361; Tweedyi, 359
Perezia linearis, 321; recurvata, 321
Pernettya mucronata, 317
Peroniella Hyalothecae, 477; **planctonica**, 476
Perowskia abrotanoides, 642
Pertusaria communis lutescens, 156; leioplaca, 156; lutescens, 156; multipunctata, 157; papillata, 156; pustulata, 157; tuberculifera, 157
Peruvian mosses, 323
Petasites corymbosa, 354; frigida, 354
Phacelia alpina, 359; ciliosa, 357; circinata, 318; heterophylla, 349; Lyallii, 359; nervosa, 361; sericea, 357
Phaeographis lobata, 151
Phalaris arundinaceae, 262
Phegopteris polypodioides, 242, 244, 376, 382
Philonotis fontana, 239
Phleum alpinum, 582, 626; pratense, 345
Phlomis bracteosa, 583, 642
Phlox alyssoides, 357; caespitosa, 355; condensata, 361; costata, 358; depressa, 357; diapensioides, 358; Kelseyi, 357
Phragmidium, 566
Phragmites communis, 587, 627; Phragmites, 345; Prattii, 285, 287
Phyllanthus **nanus**, 464
Phyllodoce empetriformis, 348; glanduliflora, 351

Physalis Alkekengi, 642
Physcia alba, 160; crispa, 160; integrata sorediosa, 160; Leana, 160; picta, 160; stellaris, 160
Physiological observations on Drosera rotundifolia, 1
Physochlaina praealta, 642
Phytogeographical notes on the Rocky Mountain region—VI. Distribution of the subalpine plants, 343
Picea albertiana, 355; canadensis, 354; Engelmannii, 354, 355; mariana, 354
Pilea pelpoides, 630; pumila, 242, 261
Pilosella Richardsoniana, 353
Pilotrichella conferta, 71; viridis, 331
Pimpinella Saxafraga, 588, 639
Pinaceae, 626
Pinguicula vulgaris, 347
Pinus, 198; albicaulis, 348, 352; aristata, 350; Balfouriana, 350; flexilis, 348; Murrayana, 348; palustris, 93; Strobus, 506
Pisum sativum, 637
Pituranthos Thomsoni, 639
Plagiochila asplenioides, 239, 240
Plagiothecium denticulatum, 240; **nitens**, 78; Mildbraedii, 78
Plagiopus Oederi, 240, 241
Plantaginaceae, 319, 643
Plantago brachyphylla, 643; major, 587, 643; maritima, 319; tibetica, 643
Plants from southern Patagonia collected by Charles Wellington Furlong, 305
Platanus occidentalis, 252, 259, 262; orientalis, 39, 45, 56
Pleea tenuifolia, 408
Pleurogyne brachyanthera, 640; carinthiaca, 583, 640; fontana, 357; Thomsoni, 581; 640
Pleurospermum Candollii, 583, 639; Hookeri, 639; stellatum, 586, 639
Pluchea camphorata, 265
Plumbaginaceae, 317, 640
Poa alpicola, 360; alpina, 587, 627; annua, 582, 588, 627; aperta, 360; argentina, 310; attenuata, 627; Buckleyana, 356; bulbosa, 627; crocata, 345; confusa, 358; Cusickii, 352; epilis, 356; Fenderleriana, 349; fuegianus, 309; Grayana, 360; laevigata, 356; leptocoma, 355; Lettermanii, 360; longiligula, 349; longipedunculata, 360; lucida, 360; nemoralis, 582, 587; nemoralis ligulata, 585, 627; nervosa, 358; nevadensis, 355; occidentalis, 360; Olneyi, 356; Paddensis, 355; Pattersonii, 360; pratensis, 585, 587, 627; Pritchardi, 310; pudica, 363; reflexa, 355; rupicola, 355; Sheldoni, 360; tibetica, 627; Traceyi, 360; tremula, 627; triclolepis, 363; Vaseyana, 360
Poaceae, 287
Podophyllum Emodi, 581, 582, 633
Pogonatum campylocarpum, 330; polycarpum, 330; simense, 69
Polygonaceae, 630
Polygonatum biflorum, 253; verticillatum, 629
Polemoniaceae, 318
Polemonium Brandegei, 361; confertum, 361; delicatum, 361; foliosissimum, 361; Grayanum, 363; miletum, 361; viscosum, 359
Polygonum affine, 582, 584, 630; alatum, 631; amplexicaule, 630; aviculare, 580, 587, 630; cognatum, 584, 630; Convolvulus, 631; filicaule, 630; Hydropiper, 587, 631; interruptus, 310; islandica, 630; lapathifolium, 630; molliaeforme, 584, 630; Muhlenbergii, 255; paronychioides, 630; pennsylvanicum, 257; Persicaria, 631; polystachyum, 582, 631; scandens, 257, 260; sibiricum, 585, 631; sphaerostachyum, 630; tortuosum, 582, 585, 631; tubulosum, 630; vaccinifolium, 630; viviparum, 587, 630
Polypodiaceae, 309, 625
Polypodiaceae, Branched prothallia in the, 365
Polypodium, 210; aureum, 365, 377; vulgare, 242
Polypogon monspeliensis, 588, 627
Polystichum, 210
Polytrichadelphus magellanicus, 309
Polytrichum alpinum, 244; antillarum, 330
Pontederia cordata, 255
Populus, 589; alba, 588, 629; ciliata, 629; candicans, 588, 629; deltoides, 259; euphratica, 629; nigra italica, 588, 629; tremuloides, 344
Porella pinnata, 239; platyphylloides, 240
Porina nucula, 147; phaea, 147; tetracerae, 147
Powtrichum valdiviae, 331
Porphyra amplissima, 171
Potamogeton alpinum, 345; filiformis, 345; heterophyllus, 345; interior, 356; nalus, 345; Richardsonii, 345; pectinatus, 345, 585, 587, 626; perfoliatus, 587, 626; sp., 255
Potentilla ambigua, 586, 635; anserina, 315, 580, 587, 635; arachnoides, 357; argyrophylla, 582, 584, 636; atrosanguinea, 636; bifurca, 580, 581–586; curviseta, 635; divisa, 357; flabellifolia, 353; fruticosa, 635; fruticosa Inglisii, 582, 584, 587, 635; fruticosa ochreata, 635; fruticosa pumila, 635; filipes, 357; gelida, 636; glaucophylla, 357; glomerata, 358; Macounii, 358, 359; minutifolia, 363; modesta, 361; multifida, 581, 586, 635; Nelsonii, 363; nivea, 346, 636;

ovina, 358; paucijuga, 363; perdissecta, 358; quinquefolia, 346; saximontana, 357; sericea, 587, 635; Salesovii, 635; Sibbaldi, 582, 635; tenerrima, 363; tetrandra, 587, 635; uniflora, 346; virgulata, 363; viridis, 361; wyomingensis, 363
Prangos pabularia, 639
Preissia quadrata, 241
Primula angustifolia, 361; brevicalyx, 639; denticulata capitata, 639; elliptica, 639; farinosa, 587, 639; Heydei, 639; involucrata, 639; Meeboldii, 639; Parryi, 357; purpurea, 639; sibirica, 581, 586, 639; Stuartii, 583, 639
Primulaceae, 317, 639
Prionodon bolivianus, 331
Pritchardia arecina, 385; **Beccariana**, 385, 386; eriophora, 385; eriostachya, 385; Gaudichaudii, 385; Hillebrandii, 385; lanigera, 385; Martii, 385; minor, 385; remota, 385; Rockiana, 385
Pritchardia, A new species of, 385
Proteaceae, 313
Prunus armeniaca, 636; persica, 636; tomentosa, 636
Psedra quinquefolia, 260
Pseudocymopterus montanus, 361; purpureus, 354; sylvaticus, 361; Tidestromii, 361
Pseudoleskea denudata, 77; dispersa, 76
Pseudoreoxys bipinnata, 358
Pseudopteryxia anisata, 361; longiloba, 361
Pseudotsuga mucronata, 348, 355
Psorotichia **bermudana**, 154; diffracta, 154
Pteridium, 366; aquilinum, 366, 380, 382
Pterigynandrum filiforme, 241
Pterospermites carolinensis, 285, 297
Ptilium Crista-castrensis, 244
Puccinia Peckiana, 559, 563
Pulsatilla occidentalis, 353
Pyrenula aurantiaca, 147; brachysperma, 147; leucoplaca, 148; manillana, 148; nitida nitidella, 148
Pyrgillus cubanus, 148
Pyrola chlorantha, 346; minor, 346; secunda, 346; uliginosa, 346; rotundifolia, 246
Pyrrocoma Clementis, 362
Pyrus communis, 635; Malus, 589, 635

Quantitative study of the factors influencing the weight of the bean seed—II. Correlation between the number of pods per plant and seed weight, 485
Quercus bicolor, 262; palustris, 262; rubra, 252
Quinchamalium procumbens, 313

Racomitrium aciculare, 239, 241
Radicula alpina, 356; curvipes, 363; palustris, 257; Underwoodii, 363
Radula complanata, 240; obconica, 241
Rajania cordifolia, 546; hastata, 546
Ramalina complanata, 158
Ranunculaceae, 293, 314, 632
Ranunculus adoneus, 360; affinis, 356, 633; alismaefolius, 360; alpeophilus, 356; aquatilis, 587, 633; Cymbalaria, 314, 580, 587, 632; eximius, 356; hirtellus, 582, 584, 632; Helleri, 358; hyperboreus, 347, 633; laetus, 633; Macauleyi, 360; micropetalus, 360; peduncularis, 314; pulchellus, 580, 582, 585, 632; saxicola, 358; stenolobus, 360; Suksdorfii, 351
Raphidium setigerum, 473
Reinschiella setigera, 473
Relbunium pusillum, 319
Rhabdoweisia denticulata, 240, 241
Rhacomitrium crispipilum, 328
Rhacopilum tomentosum, 332
Rhamnaceae, 316
Rheum Emodi, 630; spiciforme, 585, 630; tibeticum, 630; Webbianum, 630
Rhodiola polygama, 361
Rhus Toxicodendron, 260
Rhynchostegium aquaticum, 334; conophyllum, 334
Rhynchostegiella Holstii, 80; Volkensii, 80
Ribes coloradensis, 359; cucullatum, 315; glandulosum, 352; Grossularia, 588, 635; hudsonianum, 347; laxiflorum, 352; montigenum, 348; orientale, 582, 635; parvulum, 356; petiolaris, 351; Wolfii, 359
Richteriella botryoides, 478, 479; globosa, 478; quadriseta, 479
Riccia crystallina, 120; Curtisii, 117, 119; Frostii, 121; glauca, 122
RIDDLE, L. W. The lichens of Bermuda, 145
Rigodium **dentatum**, 64, 79; gracile, 79; kilimandscharico, 79
Rinodium insperata, 159
Rochelia cardiosepala, 641; rectipes, 641; stellulata, 641
ROCK, J. F. A new species of Pritchardia, 385
Romanzoffia Leibergii, 363; sitchensis, 353
Rondeletia **calcicola**, 467
Rosa Eglanteria, 636; Webbiana, 581, 582, 636
Rosaceae, 315, 635
ROWLEE, W. W. Plants from southern Patagonia collected by Charles Wellington Furlong, 305
Rubia tibetica, 581, 586
Rubiaceae, 643
Rubus acaulis, 347; americanus, 567; arcticus, 567; argutus, 563; canadensis,

561, 564, 567; Chamaemorus, 347; cuneifolius, 567; frondosus, 561, 567; nigrobaccus, 561, 567; nivalis, 351; occidentalis, 567; procumbens, 564; Randii, 567; saxatilis, 559, 567, 635; stellatus, 567; strigosus, 567; triflorus, 567; trivialis, 567; vermontanus, 567; villosus, 567; vitifolius, 567
Rudbeckia hirta, 268
Rumex Acetosa, 588, 630; orientalis, 630
RYDBERG, P. A. Phytogeographical notes on the Rocky Mountain region—VI. Distribution of the subalpine plants, 343
Rydbergia Brandegei, 362; grandiflora, 357
Rynchospora intermixta, 443; oligantha, 443; pusilla, 443

Sabalites sp., 285, 288
Saelania glaucescens, 241
SAFFORD, W. E. Desmopsis, a new genus of Annonaceae, 183
Sagina procumbens, 587; saginoides, 346
Sagittaria angustifolia, 95; latifolia, 255; variabilis, 548, 554
Salicaceae, 289, 629
Salix alaxensis, 353; alba, 588, 629; angustifolia, 629; Barclayi, 351; cascadensis, 352; chlorophylla, 345; cordata, 258; daphnoides, 582, 629; desertorum, 353; divergens, 630; Drummondiana, 353; elegans, 629; eutawensis, 285, 289; Fernaldii, 358; flabellaris, 629; fragilis, 588, 629; glaucops, 348; hastata, 629; longifolia, 258; nigra, 259; oxycarpa, 630; myrtillifolia, 353; pseudomyrsinites, 347; pycnostachya, 629; saskatchewana, 353; saximontana, 356; sclerophylla, 629; Seemanii, 353; subcaerulea, 351; tetrasperma, 630; Tweedyi, 358; Wolfii, 359
Sambucus canadensis, 260; microbotrys, 359
Salsola collina, 585, 631; Kali, 587, 631
Samolus spathulatus, 317
Sanguinaria canadensis, 253
Sanicula gregaria, 242
Santalaceae, 313, 630
Saponaria Vaccaria, 632
Satureia Darwinii, 319
Saussurea albescens, 646; bracteata, 646; elliptica, 646; Falconeri, 646; glanduligera, 646; graminifolia, 646; Jacea, 646; Schultzii, 646; sorocephala, 646; Stoliczkai, 646; subulata, 646; taraxifolia, 646; Thomsoni, 646
Saussurea, 589; albescens, 583; bracteata, 586; Jacea, 583; glanduligera, 586; sorocephala, 583
Savastana odorata, 345
Savia **perlucens**, 464
SAX, K. Fertilization in Fritillaria pudica, 505
Saxifraga, 361, 589; cernua, 346, 582, 635; cordillerarum, 315; debilis, 356; flagellaris, 582, 635; Hirculus indica, 582, 635; Jacquemontiana, 635; oppositifolia, 587, 635; ramulosa, 635; rivularis, 347; sibirica, 580, 584, 635; Stracheyi, 582, 635
Saxifragaceae, 314, 635
Scapania memorosa, 240, 241
Scheuzeria palustris, 345
Schizmus marginatus, 627
Schoenocaulon Drummondii, 408, 409; texanum, 408, 409
Schoenacaulon A. Gray in southern Texas, 408
Schoenus paradoxus, 444
Schoepfia **cubensis**, 458
Schroederia **Judayi**, 474; setigera, 473
Scirpus americanus, 255; caespitosus, 347; Caricis, 628; capillaris, 447; cyperoides, 441; coarctatus, 447; floccosus, 445; hirtus, 446; juncoides, 442, 447; lacustris, 628; nodulosus, 442; pauciflorus, 587, 628; pumilus, 628; rufus, 587, 628; setaceus, 628; stenophyllus, 443; validus, 255
Scleria gracilis, 443
Sclerophyton elegans, 151
Scolopendrium, 366; vulgare, 365, 378, 382
Scorzonera divaricata, 581, 647; purpurea, 647
Scrophularia dentata, 642; lucida, 642; scabiosaefolia, 583, 642; variegata, 642
Scrophulariaceae, 318, 642
Scutellaria Heydei, 641; prostrata, 583, 641
Sebdenia heteronema, 171, 172
Sebesten **brachycalyx**, 457; Sebestena, 457
Sedum, 589; asiaticum, 582, 635; Ewersii, 582, 635; quadrifidium, 635; Rhodiola, 582, 584, 587, 635; tillaeoides, 635; tibeticum, 582, 584, 586, 635
Sematophyllum carolinianum, 241
Sempervivium acuminatum, 580, 582, 586, 635
Senecio admirabilis, 362; alpicola, 359; acanthifolius, 321; ambrosioides, 362; amplectens, 362; anacletus, 362; arnicoides frigida, 583, 586, 646; atratus, 362; carthamoides, 362; chloranthus, 362; chrysanthemoides, 583, 646; coronopifolius, 646; crassulus, 362; crocatus, 362; cymbalarioides, 357; Darwinii, 321; dubius, 646; falklandicus, 321; foliosus, 362; Harbourii, 362; Holmii, 362; Hatcherianus, 321; Jonesii, 362; Kingii, 321; lapathifolium, 362; longipes, 321; lugens, 354; megacephalus, 359; multicapitatus, 362; Nelsonii, 362;

paeninsularis, 321; pagosanus, 362; pauciflorus, 347; pedunculatus, 646; perplexans, 362; pentadontus, 362; pudica, 362; Purshianus, 357; pseudareus, 357; sericeo-nitens, 321; seridophyllus, 350; soldanella, 362; sphaerocephalus, 359; taraxacoides, 362; tibeticus, 646; trifurcatus, 321; vulgaris, 274; werneriaefolius, 362
Setaria viridis, 588, 626
Sibbaldia procumbens, 346
Sicyos angulatus, 260
Sieversia ciliata, 355
Silene, 358; acaulis, 346; conoidea, 632; Douglasii, 356; Hallii, 360; Menziesii, 356; Moorcroftiana, 580, 584, 632; oregana, 351; repens, 353; tenuis, 582, 632; vulgaris, 582, 632
Sisymbrium, 589; Columnae, 580, 633; humile, 633; mollissimum, 633; minutiflorum, 633; Sophia, 633; Thalianum, 633
Sisyrinchium alpestre, 360; chilense, 311; iridifolium, 311, 399; junceum, 311; striatum, 311
Sitanion rigidum, 358
Smelkowskia americana, 356; linearioba, 360; lobata, 358; ovalis, 351
Smilacina racemosa, 242, 253
Smilax **biltmoreana,** 411, 413; diversifolia, 417; ecirrhata, 411, 419; herbacea, 410, 411, 413, 414; **Hugeri,** 411, 420; inermis, 414; lasioneuron, 410, 411, 417; **leptanthera,** 410, 412; peduncularis, 414; Pseudo China, 410, 413; pulverulenta, 410, 411, 420; tamnifolia, 410, 411; tenuis, 411, 419
Smilax, Subgenus Nemexia (Raf.) in the eastern United States, 409
SMITH, G. M. New or interesting algae from the lakes of Wisconsin, 471
SMITH, P. M. The development of the embryo and seedling of Dioscorea villosa, 545
Solanaceae, 642
Solanum Dulcamara, 260; nigrum, 642; tuberosum, 642
Solenanthus circinatus, 641
Solenomelus Sisyrinchium, 311
Solidago ciliosa, 357; decumbens, 362; latifolia, 242; oreophila, 357; scopulorum, 358; serotina, 261
Sonchus asper, 647; oleraceus, 589, 647
Sophia purpurascens, 360; sophicides, 353
Sophora alopecuroides, 636; Moorcroftiana, 636
Sparganium, 554; angustifolium, 345; minimum, 345
Spathularia Brunnoniana, 354; ferruginea, 354; Vreelandii, 357
Sphaerocarpos, 117, 119; californicus 119; cristatus, 123; Donnellii, 123; texanus, 119
Sphaerostigma Hilgardi, 390
Sphagnum, 2
Spermacoce havanensis, 453; spinosa, 453
Sphenolobus exsectus, 241
Spirulina **laxa,** 481
Spraguea multiceps, 358
Squamidium rotundifolium, 331
Stachys tibetica, 581, 642
Statice macrorrhabdos, 640
Staurogenia apiculata, 472
Stellaria debilis, 314; decumbens, 584, 631; graminea, 582, 585, 588, 631; glauca, 588, 631; media, 588, 631; semivestita, 632; tibetica, 631
Stenophyllus **alpestris,** 44, 446; **antillanus,** 444, 447; capillaris, 444, 447; ciliatifolius, 95; coarctatus, 444, 447; **coniferus,** 444, 445; **curassavicus,** 445; **fimbriatus,** 444, 446; floccosus, 444, 445; **junciformis,** 442, 444, 447; **leucostachys,** 444, 445; paradoxus, 444; portoricensis, 444, 445; subaphyllus, 443, 444, 446; **tenuifolius,** 448; **Tuerckheimii,** 444, 446; **vetustus,** 444, 446; Wilsoni, 444, 446
Sterculiaceae, 296
Sterculia Snowii **tennesseensis,** 285, 296
Stereodon cupressiformis, 246
Stereophyllum odontocalyx, 73
STEWART, R. R. The flora of Ladak, western Tibet—I. Discussion of the flora, 571; —II. Check list of Ladak plants, 625
Sticta endochrysea, 308
Stipa barbata, 585, 626; basiplumosa, 626; Hookeri, 626; minor, 356; mongolica, 626; oregonensis, 352; Nelsonii, 356; pogonathera, 310; purpurea, 626; purpurea longe-aristata, 626; sibirica, 626; splendens, 626; Tweedyi, 356
Stracheya tibetica, 637
Streptopus amplexifolius, 244; roseus, 242, 244
Studies of West Indian plants—VIII, 441
Suaeda corniculata, 631; microsperma, 631
Swertia congesta, 357; cordata, 583, 640; petiolata, 583, 640; scopulina, 357
Symphyostemon biflorus, 311; Lyckholmi, 311
Synthyris dissecta, 359; laciniata, 359; pinnatifida, 363; reniformis, 351, 352

Tamaricaceae, 638
Tamarix gallica Pallasii, 638
Tamus communis, 545, 546, 548, 550, 551, 555
Tanacetum, 589; artemisioides, 583, 645; fruticulosum, 586, 645; gracile, 645; longifolium, 645; nanum, 645; tibeticum, 645; tomentosum, 645; vulgare, 273

Tapura **obovata**, 465
Taraxicum laevigatum, 32; leucanthum, 647; officinale, 581, 584, 586, 589, 647
Tauscheria lasiocarpa, 634
Telesonix heucheriformis, 358; Jamesii, 361
Tennessee, Contributions to the Mesozoic flora of the Atlantic coastal plain, 283
Tetraedron enorme, 480; gracile, 480; limneticum, 480; lobatum **polyfurcatum,** 480; **planctonicum,** 479
Tetrastrum apiculatum, 472
Thalictrum, 589; alpinum, 346, 633; dioicum, 253; minus, 633; minus foetidum, 633; platycarpum, 633; rutaefolium, 633; venulosum, 356
Thallocarpus Curtisii, The morphology of, 117
Thamnium alleghaniense, 240; alopecurum, 71; **capense,** 71; Leibergii, 71; maderense, 71
Thelidium **bermudanum,** 146; **Farlowi,** 147; pyrenophorum, 147
Thelotrema trypaneoides, 141
Thermometric movements of tree branches at freezing temperatures, The, 29
Thermopsis inflata, 582, 636
Thesium himalense, 630
Thlaspi arvense, 582, 633; alpestre, 633; californicum, 353; coloradense, 360; glaucum, 356; magellanicum, 314; purpurascens, 360
Thuidium delicatulum, 239; peruvianum, 332
Thylacospermum rupifragum, 632
Thymus Serpyllum, 586, 588, 642
Tilia americana, 252, 260, 262; europaea, 29
Tofieldia intermedia, 351
Tonestus laceratus, 363; pygmaeus, 362
Tortella tortuosa, 241
Tortula affinis, 326; andicola, 326; confusa, 326; erythroneura, 67; **Eubryum,** 66; exesa, 67; **lacerifolia,** 326; laevipila, 66; pagorum, 66; ruralis, 67
Tournefortia **Earlei,** 460; incana, 460; stenophylla, 460
Townsendia grandiflora, 362
Trachydium Roylei, 583, 639
Trachyphyllum fabronioides, 72; gastrodes, 72
Tragopogon porrifolius, 647; pratense, 583, 589, 646
Tribulus terrestris, 588, 638
Tricholepis tibetica, 646
Trichopus zeylanicus, 546, 548
Trichostomum afrum, 66; afro-fontanum, 66; brachydontium, 324
Trifolium attenuatum, 363; bracteolatum, 363; Brandegei, 361; dasyphyllum, 361; Haydeni, 358; lividum, 361; montanense, 358; nanum, 357; Parryi, 361; pratense, 588, 636; scariosum, 363; stenolobum, 361
Triglochin maritima, 345, 580, 585, 587, 626; palustris, 345, 580, 587, 626
Trigonella corniculata, 636; Emodi, 636
Trigyneia, 184; Galeottiana, 184, 187
Trillium erectum, 242, 253
Trisetum majus, 355; montanum, 360; subspicatum, 345, 582, 627
Triticum vulgare, 628
Trollius albiflorus, 355
TROWBRIDGE, C. C. The thermometric movements of tree branches at freezing temperatures, 29
Tsuga Mertensiana, 352
Tium alpinum, 346
Tulipa Gesneriana, 400, 548
Tussilago Farfara, 589, 646
Typha latifolia, 255, 261, 262

Ulmaceae, 630
Ulmus americana, 252; parvifolia, 630
Ulota americana, 240, 241
Umbelliferae, 317, 639
Undescribed species from Cuba, 458
Undescribed species from Porto Rico, 456
Undescribed species from the Isle of Pines, 462
Unona, 183; bibracteata, 183, 184, 190; Desmos, 183; discolor, 183; discreta, 183; panamensis, 183–185; violacea, 190
Unonopsis, 183, 184; angustifolia, 184; Perottetii, 184; rufescens, 184
Uredinopsis, 198
Urtica dioica, 588, 630; hyperborea, 585, 630; magellianica, 313
Urticaceae, 313, 630
Utricularia minor, 346, 587, 643; vulgaris, 346

Vaccinium caespitosum, 345; globularis, 359; occidentale, 352; oreophilum, 356, 357; scoparium, 356, 357; uliginosum, 347; Vitis-Idaea, 347
Vagnera stellata, 346
Valeriana acutiloba, 362; carnosa, 319; dioica, 644; edulis, 357; septentrionalis, 347; sitchensis, 354; lapathifolia, 319; Stracheyi, 644; Wallichii, 644
Valerianaceae, 319, 644
Vallisneria spiralis, 255
Vegetation of Connecticut, The,—V. Plant societies along rivers and streams, 235
Veratrum reciosum, 349
Verbascum Thapsus, 583, 588, 642
Verbena Carroo, 319; hastata, 261; Pritchardi, 319
Veronica agrestis, 589, 643; americana, 346; Anagallis-aquatica, 587, 643; Beccabeenga, 588, 643; biloba, 643;

ciliata, 586, 642; deltigera, 583, 642; scutellata, 347; serpyllifolia, 346; Wormskioldii, 346
Verrucaria albido-atra, 146; bermudana, 145, 146; ruderella, 146; rupestris, 146; rupestris ruderum, 146
Vesicularia sphaerocarpa, 79
Viburnum acerifolium, 243
Vicia Faba, 637; magellanica, 316; sericella, 316; tenuifolia, 637
Viola adunca, 351; bellidifolia, 361; blanda, 242; cinerea, 638; cucullata, 242, 261; flavovirens, 358; kunawarensis, 638; maculata, 316; neomexicana, 361; pubescens, 253; rotundifolia, 242, 244
Violaceae, 316, 638
Vitaceae, 296
Vitis barbrusca, 533

Wahlberdella attenuata, 363; Kingii, 363; montana, 360
WEATHERWAX, P. Morphology of the flowers of Zea Mays, 127
Werneria nana, 587, 646; nana affinis, 584, 646
Weymouthia mollis, 309
WILLIAMS, R. S. Peruvian mosses, 323
Woodsia, 366; obtusa, 378, 382
Woodwardia, 366; virginica, 379, 382
WUIST, E. D. Branched prothallia in the Polypodiaceae, 365

Xerophyllum tenax, 352
Xylopia frutescens, 183; salicifolia, 183
Xyris indica, 401; **longibracteata**, 462

Yucca glauca, 408; sp., 408

Zamia **silicea**, 462
Zannichellia, 554; palustris, 587, 626
Zea Mays, Morphology of the flowers of, 127
Zizania palustris, 255
Zygophyllaceae, 638